Research in the field of unsaturated phosphiaic acids. Part 20. Resters of (3-chloro-2-methylbutene-2)-4-phosphinic and (2-methylbutadiene-2,3)-4-phosphinic acids. Isv.AH SSSR. Otd.khim.nauk no. 8:927-931 Ag '56. (MLRA 9:10) 1. Institut elementoorganicheskikh scyedineniy Akademii nauk SSSR. (Phosphinic acid)

KOLOBOVA, N. YE., ANISIMOV, K.N., (Inst. Elementary Organ. Compounds AS USSR)

"Research in the Field of Derivatives of Unsaturated Phosphinic Acids" (Issledovaniye v oblasti proizbodnykh nepredel-nykh fosfinovykh kislot)

·Chemistry and Uses of Organophosphorous Compounds (Khimiya i primeneniye fosfororganicheskikh soyedneniy), Trudy of First Conference, 8-10 December 1955, Kazan, pp. Published by Kazan Affil. AS USSR, 1957 232-242.

Report discussed by A.N. Pudovik (Chem. Inst. im. Acad. A. Ye. Arbuzov, Kazan Aff. AS USSR), G. V. Vinogradov (Inst. of Petroleum im. Acad. S. S. Nametkin AS USSR), B.A. Arbuzov (Chem. Inst. im. Acad. A.Ye. Arbuzov, Kazan Aff. AS USSR)

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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910011-6"

SOV/80-59-1-29/44

AUTHORS:

Papok, K.K., Anisimov, K.H., Zuseva, B.S. and Kolobova, E.Ye.

TITLE:

Effect of Esters of Unsaturated Phosphinous Acids on the Antioxidation Properties of Mineral Oil (Vliyaniye efirov nepredel'nykh fosfinovykh kislot na antiokislitel'nyye svoystva

mineral'nogo masla)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, ANr 1, pp 180-186 (USSR)

ABSTRACT:

Phosphorus-organic compounds improve the properties of lubricating oils. In the present paper the authors describe the effect of esters of unsaturated phosphinous acids on the antioxidizing properties of the MS-20 mineral oil. The evaluation of these properties was performed by the four methods: 1. thermal oxidizing stability, 2. volatility, 3. working fraction and 4. varnish formation (GOST 5737-53), and the results were compiled into tables. Their analysis leads to the following conclusions: 1. The antioxidizing properties of unsaturated phosphinous acid esters are improved: a. with the introduction of the phenyl group in diethyl, diallyl and dihexyl esters; b. with the presence of the indenyl group in diethyl and diallyl esters; c. with an increase in the length of the hydrocarbon radical (from C₂ to C₆) in diallyl and dihexyl esters; d. with an increase in the length of the chain of the ester grouping radical (from C₂ to C₆) in esters of the chain of the ster grouping

Card 1/2

CIA-RDP86-00513R000823910011-6" APPROVED FOR RELEASE: 09/18/2001

SOV/80-59-1-29/44

Effect of Esters of Unsaturated Phosphinous Acids on the Antioxidation Properties of Mineral Oil

> phosphinous, A-phenylvinylphosphinous and A-hexyloxivinyl-phosphinous acids. 2. Among the compounds investigated dihexyl esters of unsaturated phosphinous acids possess the highest antioxidizing properties.

There are 5 tables and 2 references, 1 of which is Soviet

and 1 American.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy AN SSSR (Insti-

tute of Elemental Organic Compounds of the AS USSR)

SUBMITTED:

May 23, 1957

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910011-6"

SOV/80-32-2-22/56

Papok, K.K., Anisimov, K.N., Zuseva, B.S., Kolobova, N.Ye. Effect of Tetraalkyldiamides and Dipiperidides of Unsaturated AUTHORS:

Phosphine Acids on the Antioxidation Properties of Minoral Oil (Vliyaniye tetraalkildiamidov i dipiperididov nepredelinykh fosfinovykh kislot na antiokislitel'nyye svoystva mineral'

Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2, nogo masla)

The effect of diamides and dipiperidides of unsaturated phosphinic acids on the antioxidizing properties of the oil MS-20 is pp 358-363 (USSR) PERIODICAL: ABSTRACT:

pninic solus on the antickluizing properties of the off moreone investigated here. The dipiperidide radical in the compounds increases their antioxidizing property. Phenyl and phenoxy groups increase the antioxidation properties only in tetraethyldismides, but not in other compounds.

diamides, but not in other compounds. The lengthening of the carbon radical in the group (NR₂)₂ from C₂ to C₄ reduces anti-oxidation in tetraethyldiamides and tetrabutyldiamides.

oxidation in tetraethyldiamides and tetracutyldiamides. Tetra acids acids alkyldiamides and piperidides of unsaturated phosphinic acids

Card 1/2

TITLE:

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<u>09/18/2001</u>

CIA-RDP86-00513R00082391001

.5(3)

507/60-32-3-33/43

AUTHORS:

Papok, K.K., Anisimov, K.H., Zuseva, B.S., Kolcheva, N.Ye.

TITLE:

The Effect of Thio-Compounds of Unsaturated Phosphinic Acids on the Anti-Oxidation Properties of Mineral Oil (Wiganiye tiosoyedineniy nepredel'nykh fosfinovykh kislot na matiokislitel'nyye svcystva minoral'nogo masla)

PERIODICAL:

Zhurnal prikladnov khimii, 1959, Vol XXXII, Nr 3, pp 656-659

(USSR)

ABSTRACT:

The effect of the dithioethyl ethers of unsaturated phosphinic and thiophosphinic acids and of the others of alkylthiogingly phosphinic acids on the antioxidation properties of the cil. MS-20 is investigated here. The best result is obtained with the dithiocthyl ether of the β -ethoxyethoxyvinylphosphinic acid. The introduction of sulfur into the ethers of unsaturated phosphinic acids increases their anticaidation proporties sharply. The ethers of alkylthiovinylphosphinic soids have no effect

Card 1/2

on the stability against thermal exidation.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910011-6"

The Effect of Thio-Compounds of Unsaturated Phosphinic Acids on the Anti-Cxidation Properties of Mineral Oil

There are 2 tables and 2 Soviet references.

SUBMITTED: December 17, 1957

Card 2/2

S/062/61/000/001/006/016 B101/B220

AUTHORS:

Slovokhotova, N. A., Anisimov, K. N., Kunitskaya, G. M.,

and Kolobova, N. Ye.

TITLE:

Infra-red spectra of some derivatives of unsaturated

phosphinic acids

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

no. 1, 1961, 71-76

TEXT: The purpose of the present paper was to verify the structural formulas of various previously (Ref.) synthesized derivatives of unsaturated phosphinic acids based on their infra-red spectra, as well as to study the mutual influence of atoms and groups inside their molecules. The spectra were taken by means of a Hilger A-209 (D-209) infra-red spectrometer. A table indicates those absorption bands from which conclusions were drawn as to the structure of the analyzed substances. In detail, the following has been found: The chlorine atom bound to the C-atom neighboring the C-C bond (ester II) increases the frequency of stretching vibrations of the C-C bond. The absorption bands 870-910 cm⁻¹ correspond-

Card 1/5

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910011-6"

Infra-red spectra of some derivatives...

S/062/61/000/001/006/016 B101/B220

ing to deformation vibrations of the CH group at the C=C bond confilm the existence of vinyl groups in IV and of vinylidene groups in I. II, III.

The shift of these bands in II is also attributed to the neighboring chlorine atom. In relation to IV where the phosphorus group is not conjugated with the C=C group, frequency in V is reduced by 40 cm⁻¹. Since, conjugated with the C=C group, due to its different configuration, cannot be however, the P=O group, due to its different configuration, cannot be located in the same plane as the C=C group, this effect is attributed to located in the same plane as the C=C group, this effect is attributed to the phosphorus atom. In the esters VII to IX, a similarity with the spectra of pentadiene and isoprene was found in the range

1640-1585 cm⁻¹, which is attributed to the corresponding bands of symmetrical and antisymmetrical vibrations of the conjugate double bonds. The band shift is attributed to the neighboring phosphorus atom. All compounds show intensive bands in the range 1250-1270 cm⁻¹; these bands correspond to the P=0 bond, and in the case of acid chlorides, they are shifted correspond to the P=0 bond, and in the case of acid chlorides, they are shifted by 20 cm⁻¹ toward higher frequencies, owing to the action of the chlorine by 20 cm⁻¹ toward higher frequencies, owing to the action of the chlorine atoms. The intensive doublet bands 1060-1000 cm⁻¹ are attributed to atoms. The intensive doublet bands 1060-1000 cm⁻¹ are attributed to atoms of the 0-C bond in the P-0-C groups. There are 3 figures, vibrations of the 0-C bond in the P-0-C groups.

Card 2/5

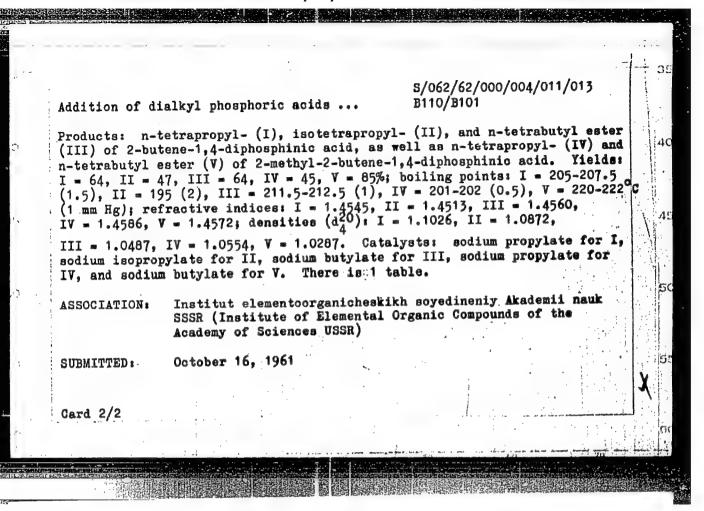
Infra-red spectra of some derivatives... S/062/61/000/001/006/016
B101/B220

ASSOCIATION: Piziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute ineni L. Ya. Karpov).
Institut elementoorganicheskikh soyedineniy ikademii nauk SSSR (Institute of Elemental-organic Compounds, Academy of Sciences USSR)

SUBMITTED: July 23, 1959

Card 3/5

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ANISIMOV, K.N.; KOLOBOVA, N.Ye.

Synthesis of tert.butylcyclopentadienyl manganese tricarbonyl and its derivatives. Izv.AN SSSR Otd.khim.nauk no.4:721-722
Ap '62.

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Manganese organic compounds)

NESMEYANOV, A.N.; ANISIMOV, K.N.; KOLOBOVA, N.Ye.

Some chemical properties of butadiene iron tricarbonyl. Izv.AN
SSSR Otd.khim.nauk no.4:722-724 Ap '62. (MIRA 15:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Iron organic compounds)

Addition of dialkylphosphorous aicds to esters of butadienyl-

and isoprenylphosphinic scids. Izv. AN SSSR Otd. khim. nauk no. 4: 726-727 Ap 62. (MIRA 15:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphorous acid) (Phosphinic acid)

S/062/62/000/011/013/021 B101/B144

AUTHORS: Nesmeyanov, A. N., Anisimov, K. N., Kolobova, N. Ye., and

. Magomedov, G. K.

TITLE: Reaction of acetyl cyclopentadienyl manganese tricarbonyl with

Grignard reagent and with Iotsich complex

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 11, 1962, 2072 - 2073

TEXT: Reaction of acetyl cyclopentadienyl manganese tricarbonyl with the corresponding Grignard reagents and with the Iotsich complex produced tertiary alcohols of acetylenes with the general structure

 $CH_3 = \frac{1}{C} + \frac{1}{C}$

glycol HO-C-C#C-COH. The alcohols are thick yellow liquids, the glycol is (CO) MunH_AC₅ C₅H_AMn(CO)₃

Card 1/2

Reaction of acetyl ...

S/062/62/000/011/013/021 B101/B144

crystalline. The structures of the synthesized compounds were confirmed by the IR spectra. The relevant data will be published later. Compounds cottobtained: 2-hydroxy-2-cyclo-pentadienyl-manganese-tricarbonyl-butype-3, yield 81%, b.p. 27°C/10⁻² mm Hg, n_D²⁰ 1.5912, d₄²⁰ 1.4131; 2,5-dihydroxy-2,5-bis-(cyclopentadienyl-manganese-tricarbonyl)-hexyne-3, m.p. 142 - 143°C without decomposition, yield 40%; 2-hydroxy-2-cyclopentadienyl-manganese-tricarbonyl-4-phenyl-butyne-3, yield 71%, b.p. 70°C/10⁻² mm Hg, n_D²⁰ 1.6236, d₄²⁰ 1.3386; 2-hydroxy-2-cyclopentadienyl-manganese-tricarbonyl-hexen-5-yne-3, yield 90%, b.p. 80°C/10⁻² mm Hg, n_D²⁰ 1.5945, d₄²⁰ 1.3307; 2-hydroxy-2-cyclopentadienyl-manganese-tricarbonyl-pentyne-4, yield 63%, b.p. 40°C/10⁻⁴ mm Hg, n_D²⁰ 1.5850, d₄²⁰ 1.3635.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR)

SUBMITTED: June 4, 1962 Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910011-6"

ANISIMUV, K.N.; KOLOBOVA, N.Ye.

Chlorides of unsaturated acids. Izv.AN SSSR. Utd.khim.nauk no.3:442-443 Mr '62. (MIRA 15:3)

1. Institut elementoorganicheskikh soyadineniy AN SSSR. (Phosphinous chloride)

ANISIMOV, K.N.; KOLOBOVA, N.Ye.

THE COMMENSATION OF THE PROPERTY OF THE PROPER

Addition of phenyltetrachlorophosphine to ethyl vinyl ether and the transformation of the adduct into various derivatives of \mathcal{B} -ethylvinylphenylphosphinic and \mathcal{B} -ethylvinylphenylphosphinous acids. Izv.AN SSSR.Otd.khim.nauk no.3:444-448 Mr 162. (MIRA 15:3)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Ethers) (Phosphinic acid) (Phosphinous acid)

KOLOBOVA, N.Ye.; ANISIMOV, K.N.

Addition of alkyl mercaptans to the esters of butadienyl- and isoprenylphosphinic acids. Izv.AN SSSR.Otd.khim.nauk no.6: 1117-1118 '62. (MIRA 15:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Thiols) (Phosphinic acid)

s/062/63/000/001/025/025 B101/B186

AUTHORS:

Anisimov, K. N., Kolobova, N. Ye., and Nesmeyanov, A. N.,

Kolomnikov, I. S.

TITLE:

Manganese rhenium decacarbonyl (CO) Mn-Re(CO) 5

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 1, 1963, 194

Reaction of sodium pentacarbonyl manganese with rhenium pentacarbonyl chloride, or of sodium pentacarbonyl rhenium with manganese pentacarbonyl bromide, in tetrahydrofuran produced the hitherto unknown manganese rhenium decacarbonyl with 60% yield in the form of lemon-yellow crystals, stable in air, m.p. 167°C, readily sublimable in vacuo, and readily soluble in organic solvents. The solutions decompose in air. The Mn-Re distance was found to be 2.96±0.01 Å.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR)

Card 1/2

APPROVED FOR RELEASE: 09/18/2001

NESMEYANOV, A.N.; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; MAGCHEDOV, G.K.

Reaction of (acetylcyclopentadienyl)manganese tricarbonyl with a Grignard reagent and Ioceech's "complex." Izv. AN SSSR. Otd. khim.nauk no.11:2072-2074 N '62. (MIRA 15:12)

1. Institut elementootganicheskikh sojedinemiy AN SSSR. (Manganese compounds) (Grignard reagents)

NESMEYANOV, A. N.; ANISIMOV, K. N.; KOLOBOV., N. Ye.; BARYSHNIKOV, L. I.

New method of synthesizing (cyclopentadienyl) rhenium tri-

carbonyl. Izv. AN SSSR. Otd. khim. nauk no.1:193-194 63. (MIRA 16:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Rhenium compounds)

NESMEYANOV, A. N.; ANISIMOV, K. N.; KOLOBOVA, N. Ye.; KOLOMNIKOV, I. S.

Manganese-rhenium decacarbonyl (CO) Min-Re(CO), Isv. AN SSSR. Otd. khim, mauk no.1x194-195 (3. (MIRA 16:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Manganese carbonyl) (Rhenium carbonyl)

ACCESSION NR: AP3009840

S/0062/63/000/007/1348/1350

AUTHORS: Nesmeyenov, A. N.; Anisimov, K. N.; Kolobova, N. Ye.

TITLE: Derivatives of pentacarbonyl manganese.

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1963, 1348-1350.

TOPIC TAGS: 'H sub 2 SO sub 4, manganese, Beta-carboalkoxy propionic acid, adipic acid, terephthalic acid, tetrahydrofuran, dioxan, pentacarbonyl manganese.

ABSTRACT: Synthesis and properties of new derivatives are reported which were obtained by the reaction of NaMn(CO)₅ with the acid chlorides of Beta-carboalkoxy propionic acids and the acid chlorides of adipic and terephthalic acid in a tetrahydrofuran medium. The following were obtained: Beta-carbo(methoxy, ethoxy, propoxy)-propionylpentacarbonyl manganese, adipinyl-bis and p-phthaloyl-bis (pentacarbonyl manganese). The first 3 compounds were soluble in the usual organic solvents, the last 2 in dioxan. All decomposed in H₂SO₄. The last compound yielded p-phenylene-bis (pentacarbonyl manganese) upon heating to 120-125C. Hydrolysis of Beta-carbomethoxypropionylpentacarbonyl manganese yielded the ketoacid

 $HOOC = CH_4 + CH_4 + C + Mn(CO) + 4$

Card 1/2.

ACCESSION NR: AP3009840

Bromination of the former gave bromopentacarbonyl manganese and Beta-carbomethoxy-propionyl bromide which hydrolized to succinic acid. Infrared spectra were determined in the 1630-1645 and 2000-2140 cm⁻¹ range. Upon heating to 1000 CO was incompletely liberated (ketone group in the infrared spectrum), while disintegration with formation of Kn₂(CO)₁₀ was observed above 1000, with the exception of the phthaloyl compound. All reactions were conducted in an inert atmosphere. Yields were 75-92%. Orig. art. has: 6 formulas.

ASSCCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of organo-metallic compounds, Academy of sciences, SSSR).

SUBMITTED: 25Feb63

DATE ACU: 15Aug63

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SUB CODE: CH

NO REF SCY: 000

OTHER: 006

Card 2/2

EWP(J)/EPF(c)/EWP(q)/EWT(m)/BDSRM/WW/JD/JW/MAY/JG ACCESSION HR: AP3004341 8/0078/63/008/008/1806/1808 AUTHORS: Krichevskaya, O. D.; Belozerskiy, N. A.; Segal', L. D.; Kolobova, N. Ye. Anisimov, K. W.; Nesmeyanov, A. N. TITLE: Kinetics of thermal decomposition of solid metal carbonyl, compounds SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 8, 1963, 1806-1808. TOPIC TAGS: carbonyl, solid carbonyl, molybdemum, manganese cyclopentadienylcarbonyl. ABSTRACT: Authors show the dissociation of solid carbonyl compounds: molybdenum carbonyl/Mo(CO)6 and manganese cyclopentadienyltricarbonyl/C_H_Nn(CO)3. The thermal decomposition of molybdenum carbonyl vapors Mo(CO)6 Mo + 6CO takes place with an increase of volume six times the original value. A special manometer was used to accurately measure the kinetics of thermal decomposition. It was shown that both reactions of the above compounds follow the first law. The activation energy was calculated from a graph. The value for Mo(CO)6 was found to be E = 17.5 kcal/mole and for C5H5km(CO) ; E = 17.9 kcal/mole. Orig. art. hass 7 figures and 1 table. ASSN: STATE INSTITUTE FOR NICKEL INDUSTRY PLANNING; INSTITUTE OF ORGANOELEMENTAL

NESMEYANOV, A.N.; ANISIMOV, K.N.; KOLOBOVA, N.Ye.

Synthesis of cyclopentadienyl- and methylcyclopentadienyltricarbonylmanganese. Izv. AN SSSR Ser.khim. no.10:1880 0 '63. (MIRA 17:3)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

NESMEYANOV, A.N., akademik; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; ZLOTINA, I.B.

Reaction of cyclopentadienylmanganese tricarbonyl ketones
with Norman's reagent. Dokl. AN SSSR 154 no.4:871-873 F '64.

(MIRA 17:3)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

NESMEYANOV, A.N., akademik; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; ZLOTINA, I.B.

Reduction of cyclopentadienylmanganese tricarbonyl ketones and dehydration of secondary alcohols. Dokl. AN SSSR 154 no.2:391-394 Ja*64. (MIRA 17:2)

1. Institut elementoorganicheskikh moyedineniy AN SSSR.

NESMEYANOV, A.N., akademik; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; BARYSHNIKOV, L.I.

Acylation of cyclopentadienylrhenium tricarbonyl. Dokl. AN SSSR 154 no. 3:646-647 Ja '64. (MIRA 17:5)

1. Institut elementoprganicheskikh soyedineniy AN SSSR.

NESMEYANOV, A.N., akademik; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; KHANDOZHKO, V.N.

Mixed bimetallic organic derivatives of rhenium carbonyl. Dokl. AN SSSR 156 no. 2 383-385 My '64. (MIRA 17:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

NESMEYANOV, A.N., akademik; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; ZAKHAROVA, M. Ya.

Bimetallic derivatives of the carbonyls of chromium, molybdenum, and tungsten. Dokl. AN SSSR 156 no. 3:612-615 '64. (MIRA 17:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

NESMEYANOV, A.N.; KOLOBOVA, N.Ye.; ANISIMOV, K.N.; BARYSHNIKOV, L.I.

Sulfonation and mercuration of cyclopentad enyl rhenium carbonyl.

Izv. AN SSSR. Ser. khim. no.6:1134 Je '64.

(MIRA 17:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ACCESSION NR: AP4042882 5/0062/64/000/007/1356/1356 AUTHOR: Nesmeyanov, A. N.; Anisimov, K. N.; Kolobova, N. Ye. TITLE: Manganese pentacarbonyl derivatives SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1964, 1356 TOPIC TAGS: manganese pentacarbonyl derivative, furoylmanganese pentacarbonyl, furylmanganese pentacarbonyl ABSTRACT: In a continuation of research on derivatives of manganese pentacarbonyl, a new compound, 2-furoylmanganese pentacarbonyl, has been prepared. Synthesized from 2-furoyl chloride and manganese sodium pentacarbonyl in quantitative yield, it is light yellow, insoluble in water, and soluble in organic solvents, with mp = 72-73C. On melting, it liberates one molecule of CO to form 2-furylmanganese pentacarbonyl, with bp = 28C (10-3 mm Hg). Orig. art. has: 2 formulas.

ANISIMOV, K.N.; KOLOBOVA, N.Ye.; MAGOMEDOV, G.K.; DVORYANTSEVA, G.G.

Ethers of 2-hydroxyhexen-5-yn-3-yl-2-cyclopentadienylmanganese tricarbon-1. Izv. AN SSSR Ser. khim no.7:1320-1322 Jl '64. (MIRA 17:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

NESMEYANOV, A.N.; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; ZLOTIHA, I.B.

Homologs of cyclopentadienylmanganese tricarbonyl. Izv.
AN SSSR Ser. khim. no.7:1326-1327 J1 '64.

(MIRA 17:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

V.

NESMEYANOV, A.N.; ANISIMOV, K.N.; KOLOBOVA, N.Ye.

Derivatives of manganese pentacarbonyl. Izv. AN SSSR Ser. khim. no.7:1356 Jl 164. (MIRA 17:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

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TITLE: Heterocyclic derivatives of marganese pentacarbony:

COURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 12, 1964, 2247

A DESTRACT: The methylfuroyl-, benzofuroyl-, and thienoyl-manganese pentacarbony:

CC-CI + NoMa (CO) - C-Ma (CO) + NoCl

Where X=0.8

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NESMEYANOV, A.N., akademik; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; MAGCHEDOV, G.K. - I.

Isomerization of 2-hydroxy-4-pentyn-2-yl-cyclopentadienyl-manganesetricarbonyl and 2-hydroxy-2-phenyl-4-methylpentyne to the respective enones. Dokl. AN SSSR 158 no.1:163-166 S - 0 *64 (MIRA 17:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

NESMEYANOV, A.N., akademik; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; BESHCHASTNOV, A.S.

Binuclear derivatives of the carbonyls of molybdenum, manganese, and rhenium. Dokl. AN SSSR 159 no.2:377-378 N '64.

(MIRA 17:12)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

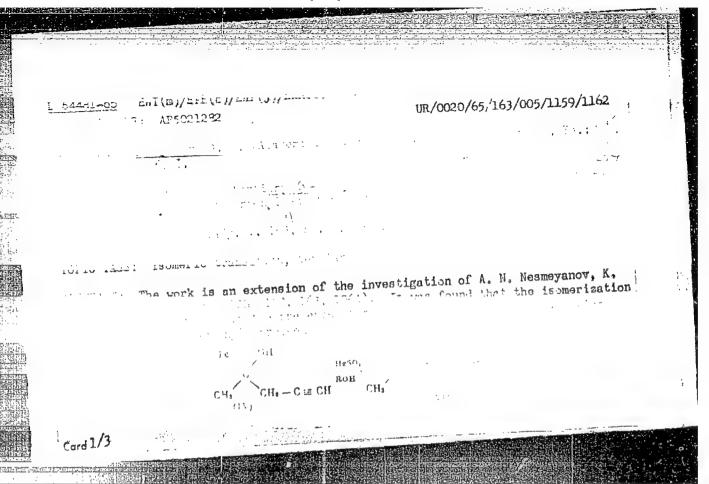
NESMEYANOV, A.N.; KURSANOV, D.N.; SETKINA, V.N.; KISLYAKOVA, N.V.; KOLOBOVA, N.Ye.; ANISIMOV, K.N.

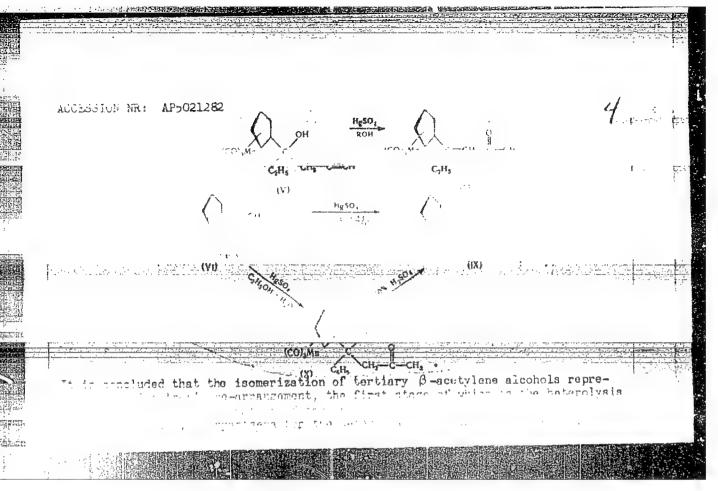
Isotopic exchange of hydrogen atoms in cyclopentadienyl rhenium tricarbonyl. Izv. AN SSSR. Ser. khim. no.4:762 '65. (MIRA 18:5)

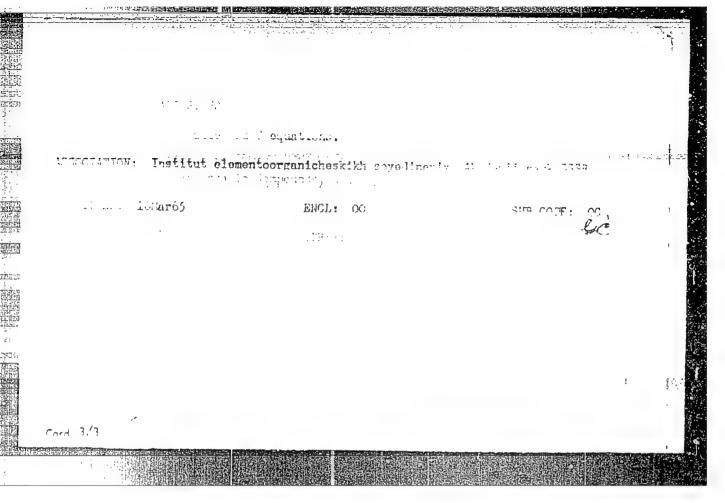
1. Institut elementoorganicheskikh soyedineniy AN SSSR.

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SOURCE: AN SSSR. Izvestiya. Seri	ya khimicheskaya, o	o. 6, 1965.	1122		5.
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NESMEYANOV, A.N.; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; ANTONOVA, A.B.

Reaction of manganese chloropentacarbonyl with trichlorogermane. Izv. AN SSSR. Ser. khim. no.7:1309 165. (MIRA 18:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

NESMEYANOV, A.N.; MAGOMEDOV, G.K.; KOLOBOVA, N.Ye.; ANISIMOV, K.N.

Condensation of acetylcyclopentadienylmanganese tricarbonyl into 2-butenon-4yl-2,4-biscyclopentadienylmanganese tricarbonyl. Izv. AN SSSR. Ser. khim. no.8:1496-1497 '65. (MIRA 18:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ANISIMOV, K.N.; KOLOBOVA, N.Ye.; MAGCMEDOV, G.K.-I.

Synthesis and isomerization of

'A-hydroxy-4-methyl-2-heptenyne-6-yl-2-cyclopantadienylmanganese tricarbonyl. Dokl. AN SSSR 165 no.4:817-820 p 155.

(MRA 18:12)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Submitted April 26, 1965.

NESMEYANOV, A.N.; ZAYTSEV, V.A.; ANISIMOV, K.N.; LERNER, M.O.; KOLOBOVA, N.Ye.; PORETSKAYA, A.P.; MAGOMEDOV, G.K.

Antidetonating effectiveness of some organic compounds of manganose. Neftekhnimiia 5 no.6:892-896 N-D 165.

(MIRA 19:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Submitted Nov. 12, 1964.

NESMEYANOV, A.N.; ANISIMOV, K.N.; KOLOBOVA, N.Ye.; ANTONOVA, A.B.

Phenylgermanium derivatives of manganese carbonyl. Izv.AN SSSR. Ser.khim. no.1:160-162 '66. (MIRA 19:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Submitted May 14, 1965.

NESMEYANOV, A.N.; KOLOBOVA, N.Ye.; ANISIMOV, K.N.; KHANDOZHKO, V.N.

Phenylgermanium and phenyltin derivatives of rhenium carbonyl. Izv.AN SSSR. Ser.khim. no.1:163-164 166.

(MIRA 19:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Submitted May 14, 1965.

	0644-66 EVT (m)/T WE/RM SOURCE CODE: UR/0204/65/005/006/0892/0899
<u>. 1</u>	O644-66 ENT (m)/T WE/RM SOURCE CODE: UR/0204/65/005/036/0892/0893 AUTHOR; Nesmeyanov, A. N.; Zaytsev, V. A.; Anisimov, K. N.; Lerner, M. O.; Kolobova, N. Ye.; Poretskaya, A. P.; Magomedov, C. K. 44,55 We have of Heterorganic Compounds AN SSSR (Institut elementoorganicheskikh)
1	Almyon Negrovenov. A. N.; Zaytsev, V. A.; Anisimov, K. N.; Lerner, M. O.; Rollossial
	N. Ye.; Poretskaya, A. P.; Magomedov, G. K. 44/35
	ORG: Institute of Heterorganic Compounds AN SSSR (Institut elementoorganicheskikh
	soyedineniy AN SSSR)
	TITLE: Antiknock effectiveness of certain organomanganese compounds
	7171E: MICIRIOCA CT.
	SOURCE: Neftekhimiya, v. 5, no. 6, 1965, 892-896
	TOPIC TAGS: antiknock compound, organomanganese compound, fuel additive
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	in different concentrations number. It was shown that for a given metal content and TEL
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	is as follows: a/ in action (40%), nearly the same; c) in the aviation gaso- isooctane (60%) and heptane (40%), nearly the same; c) in the aviation B-95/130 gaso- B-95/130, lower. 2) The antiknock effectiveness of 2[2-(alkoxy)-5- line is equal to that of CTM. 3) The antiknock effectiveness of 2[2-(alkoxy)-5- line is equal to that of CTM. 3) The antiknock effectiveness of the alkoxy group and
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ENT(m)/ENP(1) 27094-66 SOURCE CODE: UR/0062/65/000/007/1309/1309 ACC NR: 126017399 AUTHOR: Nesmeyanov, A. N.; Anisimov, K. N.; Kolobova, N. Ye.; Antonova, A. B. ORG: Institute of Organoelemental Compounds AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR) TITIE: Reaction of manganese chloropentacarbonyl with trichlorogermanium SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1965, 1309 TOPIC TAGS: manganese compound, germanium compound, IR spectrum, absorption band ABSTRACT: Bimetallic compounds of carbonyls of transition metals with group IV metals are obtained by reaction of the sodium salt of the metal carbonyl with the halogenide derivative of a group IV metal. The authors carried out a new reaction of manganese chloropentacarbonyl with trichlorogermanium for the series of metal carbonyls: Ocl3GeH + ClMn(CO)5 - Cl3GeMn(CO)5 + HCl.
The reaction was carried out in tetrahydrofuran with gradual rise in temperature from 20 to 60°C during the course of one hour. The manganopentacarbonyltrichlorogermanium, obtained with a 40% yield, is a white crystalline compound with b. p. 168.5 - 169°C, insoluble in water, soluble in petroleum ether, benzene, and other organic solvents, sublimating in vacuum, and stable in air-The infrared spectrum of the compound contained intensive absorption bands in the region characteristic of carbonyl groups bound with metal, 2030 and 2130 cm-1; bands were present in the region of 400 and 453 cm-1, corresponding to Ga-Cl bonds in compounds with the GeCla groupings. Orig. art. has: 1 formula. [FRS] SUB CODE: /07, 20 / SUBM DATE: 23Apr65 / ORIG REF: 002

SOURCE CODE: UR/0062/66/000/001/0160/0162 EWP(j)/EWT(m) T. 36986-66 ACC NR: AP6008509

AUTHOR: Nesmeyanov, A. N. / Anisimov, K. N. / Kolobova, N. Ye. / Antonova,

ORG: Institute of Heteroorganic Compounds, Academy of Sciences SSSR (Institut P) elementoorganicheskikh soyedineniy Akademii nauk SSSR)

TITLE: Phenylgermanium derivatives of manganese carbonyl

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 1, 1966, 160-162

TOPIC TAGS: manganese compound, phenyl compound, germanium compound, chemical synthesis, organogermanium compound

ABSTRACT: This investigation is devoted to the synthesis of phenylgermanium derivates of manganese carbonyl (C₆H₅) 4-nGeBr_n - nNaMn(Co)₅ (C₆H₅)_{4n} $Ge[Mn(CO)_5] \stackrel{\Lambda}{n} + nNaBr$, where n = 1 or 2, and to a study of certain of their properties. As a result of the reactions of the sodium salt of manganese carbonyl with halogenated phenylgermanium derivatives, the authors synthesize the bimetallic compounds (C6H5)3GeMn(CO)5, (C6H5)2Ge Mn(CO)5]2, and (C6H5)2 (CO)5Mn GeGel Mn(CO)51(C6H5)2. By substituting CO-groups into the bimetallic compounds for phosphines,

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ACC NR: AP6008509 APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910011-6" arsines, and stibines, the authors obtain $(C_6H_5)_3GeMn(CO)_4P(C_6H_5)_3$, $(C_6H_5)_3GeMn(CO)_4As(C_6H_5)_3$, and (C6 H5)3 GeMn(CO)4 Sp (C6H5)3.

When halogens act on the phenylgermanium derivates of manganese carbonyl (C6H5)2BrGeMn(CO)5, (C6H5)Br2GeMn(CO)5, Br3GeMn(CO)5, and Cl3GeMn(CO)5 are obtained. The authors thank Yu. N. Sheynker and G. G. Dvoryantseva for measuring the infrared spectra.

SUB CODE: 07/ SUBM DATE: 14May65/ ORIG REF: 002/ OTH REF: 003

L 36987-66 EWP(j)/EWT(m) ACC NR: AP6008510 SOURCE CODE: UR/0062/66/000/001/0163/0164 42 AUTHOR: Nesmeyanov, A. N.; Kolobova, N. Ye.; Anisimov, K. N.; 10 Khandozhko, V. N. ORG: Institute of Heteroorganic Compounds, Academy of Sciences, SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR) TITLE: Phenylgermanium and phenylstannic derivatives of rhenium carbonyl SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 1, 1966, 163-164 TOPIC TAGS: phenyl compound, germanium compound, tin compound, rhenium compound, organotin compound, chemical synthesis, organogermanium compound ABSTRACT: In this work the authors accomplish the synthesis of compounds with a Ge-Re bond and investigate certain properties of these compounds. Compounds of the type $R_{4-n}Ge[Re(CU)_5]_n$ are produced by the reactions of the appropriate organogermanium halides with the sodium salt of rhenium pentacarbonyl $R_{4-n}GeX_n + nRaRe(CO)_5 \rightarrow R_{4-n}GeRe(CO)_5 l_n + nNaX$, where $R = C_6H_5$; X = Br, Cl; n = 1, 2. From this reaction the authors obtained $Ph_3GeRe(CO)_5$ and $Ph_2GeRe(CO)_5 l_2$ with yields of 87 and 60%, respectively. in the form of colorless crystals stable in air. Both compounds are readily dissolved in polar solvents and in hydrocarbons with heating. By using halides UDC: 542.91+547.1'3 Card 1/2

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ACC NR: AP6008510

(Br₂), or halogen acids (HCl), the authors synthesized Br₃GeRe(CO)₅ and Ph₂GeRe(CO)₅. In the reaction of PPh₃, AsPh₃, S_bPh₃ with Ph₃GeRe(CO)₅ and Ph₃SnRe(CO)₅ the corresponding substitutes are obtained with the general formula Ph₃M-Re(CO)₄L, where M = Ge, Sn; L = PPH₃; AsPh₃; SbPh₃. The authors thank Yu. N. Sheynker and G. G. Dvoryantseva for measuring the infrared spectra.

SUB CODE: 07 / SUBM DATE: 14May65/ORIG REF: 002 / OTH REF: 000

Card 2/2 05

ACC NR: AP7013161

SOURCE CODE: UR/0062/66/000:012/2246:2246

AUTHOR: Nesmeyanov, A. N.; Anisimov, K. N.; Kolobova, N. Ye.; Denisov, F. S.

ORG: Institute of Heterorganic Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR)

TITLE: Synthesis of pi-Cyclopentadienyldicarbonylirontrichlorogermane and pi-Cyclopentadienyldicarbonylirondichlorogermane

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 12, 1966, 2246

TOPIC TAGS: germanium compound, chlorinated organic compound, organic chemical synthesis

SUB CODE: 07

ABSTRACT: pi-Cyclopentadienyldicarbonylirontrichlorogermane (I) was synthesized by the reaction of pi-cyclopentadienyldicarbonyliron chloride with HGeCl₃. Compound (I), an air-stable crystalline substance, was also produced in a mixture with pi-Cyclopentadienyldicarbonylirondichlorogermane (II) in low yield by the action of trichlorogermane upon dimer pi-cyclopentadienylirondicaroonyl. The compound (II) was also produced in 85% yield by the reaction of a complex of d_oxane and germanium dichloride or dimer pi-cyclopentadienylirondicarbonyl.

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Compound (III) is an c	range crV	stalline	substance	, stable	in air.	Both (I)	
and (II) we spectra we		and a	ad their	intrated :	anu nuci	CHI MONIN	CLIC TOOL	nance	
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KAPUSTINA, L.D.; KOLOBOVA, T.I.; TUMANOVA, G.V.

Experience with a continuous single-process twister for the manufacture of elastic capron fibers. Khim.volok. no.5:57-58 162. (MIRA 15:11)

1. Klinskiy kombinat iskusstvennogo i sinteticheskogo volokna.

(Nylon) (Textlic machinery)

POPOVA, T.L.; KOLOBOVA, T.I.; SHMEL'KOV, F.I.

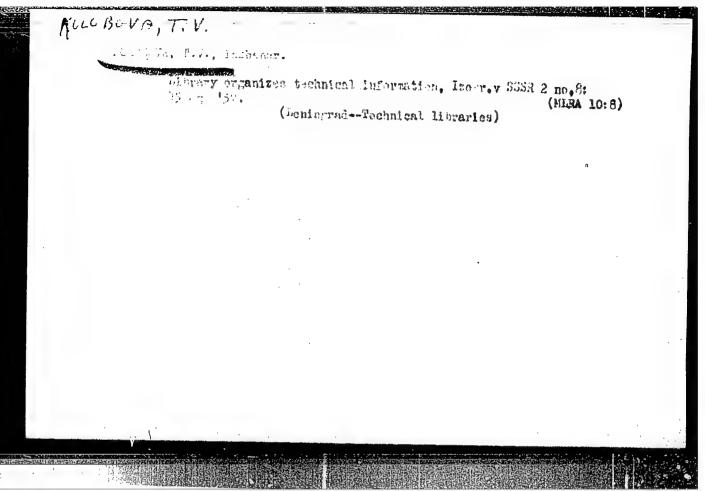
Increasing the efficiency of the PKS-2 bobbin rewinding machines. Khim.volok. no.5:74 '62. (MIRA 15:11)

1. Klinskiy kombinat iskusstvennogo i sinteticheskogo volokna. (Textile machinery)

ROLOBOVA. T.V.; GOLOVANOV, A.A.

Electric cenveyer train for factory transportation of semifinished products. Tekst.prom. 15 no.11:45-46 N '55. (MIRA 9:1)

(Conveying machinery)



AL'TSHULER, V.Ye., prof.; NIKITINA, L.L., starshiy laborant; KOLOBOVA, V., zootekhnik; TIKHOMIROVA, Ye., zootekhnik

Checking standards for the judging of bulls based on various numbers of daughters. Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19:92-100 '62. (MIRA 17:1)

l. Kafedra razvedeniya sel'skokhozyaystvennykh zhivotnykh i molochnogo dela (zav. - prof. V.Ye. Al'tshuler) Ivanovskogo sel'skokhozyaystvennogo instituta.

ACC NR: AP6033475

SOURCE CODE: UR/0413/66/000/018/0061/0061

INVENTOR: Novoderezhkin, V. V.; Kolobova, V. I.; Manoim, G. I.; Porshnyakova, Z. S.; Pucheglazova, I. I.; Izraileva, E. S.

ORG: none

TITLE: Method of producing positive electrodes of dry-charged lead-acid storage batteries. Class 21, No. 185989

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 61

TOPIC TAGS: storage battery, battery component, positive electrode, lead oxide,

ABSTRACT: An Author Certificate has been issued for a method of producing positive electrodes by pasting, drying, forming neutralizing the acid, and hot-air drying them in multizone continuous-motion dryers. To simplify production technology, the material. Drying takes place at a temperature up to 200C, with relative air humidity not over 30%, and with 5—6 m/sec air velocity for 15 to 20 min. Air temperature is then reduced to 100C—120C, and the process is maintained at this

SUB CODE: 10/ SUBM DATE: .08May65/

Card 1/1

UDC: 621.3.035.23:66.047.3

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Materials of the Third Ural Conference (Cont.)	SOV/6181	
Finkel'shteyn, A. I., B. I. Sukhorukov, T. M. Korniyenko, and Yu. I. Mushkin. Utilization of acid and alkali properties for spectrophotometric analysis of aminohydroxy compounds by means of ultraviolet spectra	168	
Finkel'shteyn, A. I. Spectral determination of composi- tion and structure of melamine pyrolysis products	171	
Korobkov, V. S. Spectroscopic manifestations of inter- molecular hydrogen bonds	174	
Kolobova, V. N., and V. V. Zharkov. Quantitative determina- tion of residual monomers in polystyrene by ultraviolet absorption spectra	178	
Ledentsov, Yu. K., and B. N. Borodina. Absorption spectra of blood serum under the effect of ionizing radiation and low temperature	180	, ,
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VEYTSER, Yu.I.; KOLOBOVA, Z.A.; STERINA, R.M.

Mechanism of the flocculating action of industrial polyacrylamide.

Nauch. trudy AKKH no.22:19-36 **163.

(MIRA 18:5)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823910011-6

s/081/62/000/018/045/059 B160/B186

AUTHORS:

Veytser, Yu. I., Kolobova, Z. A.

TITLE:

Production of solid polyacryl amide

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 18, 1962, 501, abstract 18P50 (Sb. nauchn. rabot Akad. kommun. kh-va,

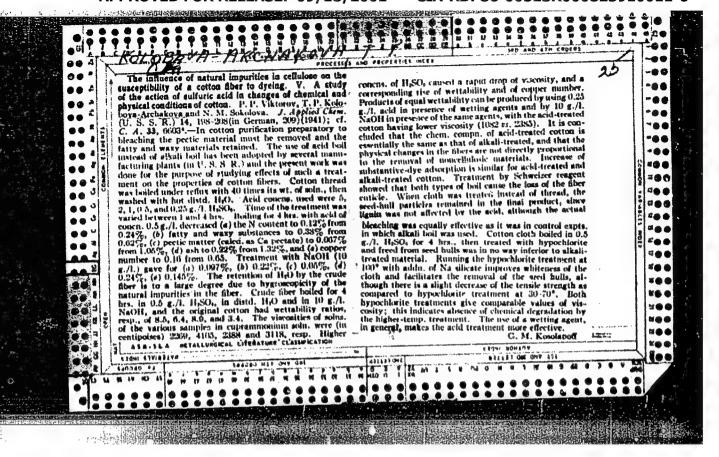
no. 8, 1961, 38-40)

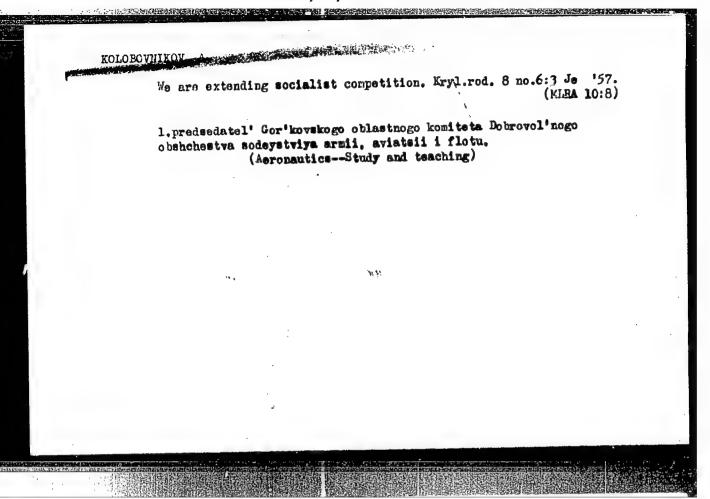
TEXT: C_2H_5OH and $(NH_4)_2SO_4$ were used as coagulators to isolate solid polyacryl amide (PAA) from 7-9% helium (the purest product is obtained when using C_2H_5OH). The amount of PAA is calculated so as to obtain a 1% aqueous-alcoholic or aqueous salt solution of PAA. [Abstracter's note: Complete translation.]

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Card 1/1

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*	10417-66 EWT(d)/EWT(m)/EWD(w)/EWD(y)/EWD(j)/T/EWD(t)/EWD(k)/EWD(h	ov)69
	Technology of the bonding [cementing] of metals (Teknologiya archively 1965, 278 p. ilius., biblio., Errata slip inserted. 9,550 copies printed. TOPIC TAGS: adhesive, alloy, steel, bonding material, fosm plastic synthetic material PURPOSE AND COVERAGE: This monograph discusses the technology of bonding various metals to themselves and also to nonmetallic construction materials. Special for involved in devising the methods (a course of action) for the formation of adhesing the advisability of their use are considered. Principal attention joints, and the advisability of their use are considered. Principal attention paid to the selection, preparation, application, heating, and also to the qualication of the starting material and of the resulting joints. The book is integer to the mechanical engineer.	us catures sive 15,44
	TABLE OF CONTENTS [abridged]: Foreword 3 Introduction 5 Ch. I. Surface phenomena and adhesion 7 Ch. II. Adhesives for metals and nonmetallic materials 34 Ch. II. Adhesives for metals and nonmetallic materials 34 UDC:621.792	
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Competitions in honor of the October anniversary. Voen.man. 33 no.10:14 0 '57. 1. Predsedatel' Gor'kovskogo oblastnogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu. (Gorkiy Province--Military education)

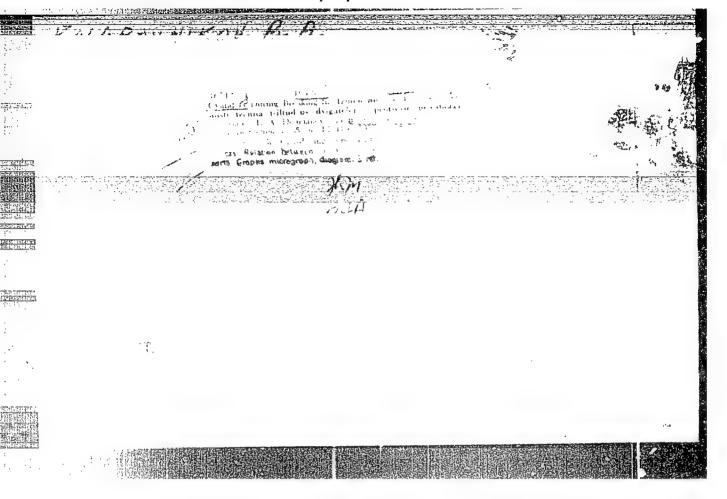
KOLOBOVNIKOV, A. To the aid of the national economy. Voen.snan. 36 no.8: 3-4 Ag '60. 1. Predsedatel' Gor'kovskogo oblastnogo komiteta Bobrovol'nogo obshchestva sodoystviya armii, aviatsii i flotu. (Nilitary education)

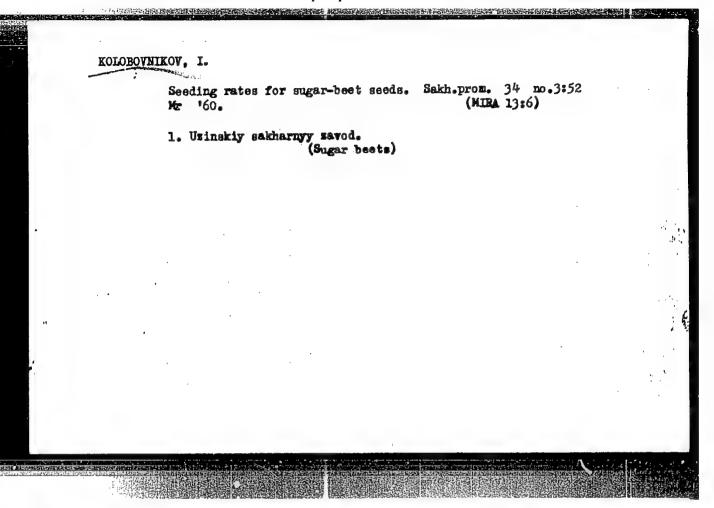
KOLOBOVNIKOV, A.

Developing community participation. Voem. gnan. 39 no.1:20 Ja *63. (MIRA 16:1)

1. Chlen Gor'kovskogo oblastnogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.

(Gorkiy Province-Military education)





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SO: IETOPIS NO. 31, 1949

MINAYEV, I.A.: KOLOBRODOV, G.L.

[Work organization and technical standardization in cottonspinning] Organizatsiia truda i tekhnicheskoe normirovanie
v khlopkopriadil'nom proizvodstve. Moskva, Gos. nauchno-

tekhn. ind-vo Ministerstva promyshl. tovarov shirokogo potrebleniia, 1953. 300 p.

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Calculation of the number of machines per worker. Isv. vys. ucheb.
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1. Institut usovershenstvovaniya rukovodyashchikh i inshenernotekhnicheskikh rabotnikov Kosobjsovnarkhosa.

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ADILOV, G.; AKOFTAN, A; DASHKOV, K. (g.Kirov); RETSKPTOR, Ya.(g.Moskva);
YESIPENKO, G.; KOLOBRODOV, G. (g.Moskva)

Editor's mail. Sots.trud 4 no.8:134-136 Ag '59.

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1. Rekovoditel' normirovochnogo punkta pri Agdashskoy Remontnotekhnicheskoy stantsii Azerbaydshanskoy SSR (for Adilov).

2. Inshoner otdela truda Yerevanskogo Savoda (for Akopyan).

3. Zamestitel' nachal'nika otdela kapital'nogo stroitel'stva
tresta "Dzershinskruda" (for Teripenko).

(Efficiency, Industrial)

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KOLOBRODOV, G.L.

New equipment requires changes in work organization. Isv.vys.ucheb. zav.; tekh.tekst.prom. no.2:6-8 '60. (NIRA 13:11)

1. Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti. (Textile industry---Management)

KOLOBRODOV. G. L.

Reduction of breekages on spinning machines is a very important condition for increasing labor productivity in spinning. Izv.vyz.ucheb. zav.; tekh.tekst.prom. no.5:3-10 '60. (MIRA 13:11)

1. Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti. (Spinning)

KOLOBUTINA, O.M.

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l. Iz kafedry propedevtiki vmutrennikh bolezney (zav. - prof. A.M. Damir) II Moskcyskogo meditsinskogo instituta imeni N.I. Pirogova.

(HEART-DISEASES) (ANEURYSM)

SHANINA, V.A.; KOLOBUTINA, O.M.; KOTEL'NIKOVA, G.P. (Moskva)

Comparative evaluation of roentgenokymographic and electrokymographic methods in the diagnosis of cardiac aneurysm. Klin.med. 39 no.4:48-55 *61. (MIRA 14:3)

1. Iz rentgenologicheskogo otdeleniya i otdeleniya funktsionsl'noy diagnostiki (sav. V.F. Sysoyev) Gosudarstvennogo nauchnoissledovatel'skogo instituta revmatizma (dir. - prof. A.I.
Nesterov) i kafedry propedevtiki vnutrennikh bolezney (sav. prof. A.M. Damir) II Moskovskogo meditsinskogo instituta imeni
N.I. Pirogova.

(HEART—RADIOGRAPHY) (ANEURYSMS) (KLECTROKYMOGRAPHY)

KOLOBUTINA, O.M.; SHTYREN, M.Ya., kand.med.nauk

Hemochromatosis. Terap.arkh. no.6:85-88 161.

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1. Iz kafedry propedevtiki vmutrennikh bolezney (zav. - prof. A.M. Damir) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova i patologoanatomicheskogo otdeleniya (zav. - prof. L.Ya. Rapoport) 4-y Gorodskoy klinicheskoy bol'nitsy. (HEMOCHROMATOSIS)

SHANINA, V.A., KOLOBUTINA, O.M., KOTEL NIKOVA, G.P.

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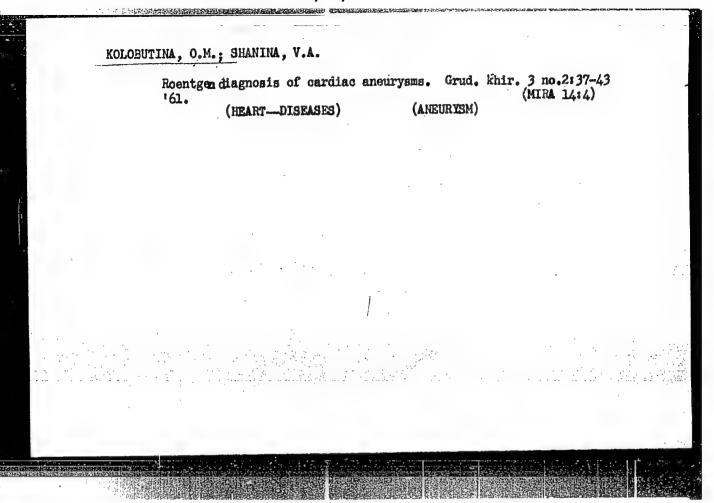
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1. Iz rentgenologicheskogo otdeleniya i otdeleniya funktsional'noy
diagnostiki (zav. V.F.Sysoyev) Gosudarstvennogo nauchnoissledovatel'skogo instituta revmatizma (dir. - prof. A.I.Nesterov)
i kafedry propedevtiki vnutrennikh bolezney (zav. prof. A.M.Damir)
II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.
(ANEURYSMS) (HEART-EXAMINATION) (KYMOGRAPHY)

KOLOBUTINA, U.M.

Electrocardiographic investigations in cardiac aneurysm; electrocardiographic and morphological parallels. Terap. arkh. 32 no. 4:30-36 S (MIRA 14:1)

(CORONARY HEART DISEASE) (ANEURYSMS)



KOLOBUTINA, O.M.

Prognosis in cardiac aneurysms. Sov. med. 25 no.5:86-91 My 161. (MIRA 14:6)

1. Iz kafedry propedevtiki vmutrennikh bolezney (zav. - prof. A.M.Damir) II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I.Pirogova.

(CARDIAC...ANEURYSMS)

Eye--Accommodation and Refraction

Outline of the evolution of the term "Coular Refraction." Vest. oft., 30, No. 5, 1951.

9. Monthly List of Russian Accessions, Library of Congress, March 195%, Uncl.

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26821 \$/560/61/000/008/010/010 E032/E514

AUTHORS:

Kurnosova, L. V., Kolobyanina, T.N., Logachev, V.I., Razorenov, L.A., Sirotkin, I.A. and Fradkin, M.I.

TITLE:

Detection of anomalies in the radiation above the southern part of the Atlantic Ocean at altitudes between 310-340 km

PERIODICAL:

Akademiya nauk SSSR, Iskusstvennyye sputniki zemli, 1961, No.8, pp.90-93

TEXT: The second Soviet satellite carried a counter telescope designed to record the total cosmic ray intensity. This telescope was a part of a more complex device whose function was to record the nuclear cosmic ray component. A brief description of the apparatus was given by S. N. Vernov, V. L. Ginzburg, L. V. Kurnosova, L. A. Razorenov, M. I. Fradkin (Ref.1: UFN, 63, No.1b, 131, 1957). The present paper is concerned only with the anomalously large counting rates obtained while the satellite was two groups of counters with effective areas of 120 and 25 cm². The distance between them was 35.8 cm. The amount of matter between two groups of counters was about 4 g/cm² (largely perspex).

Detection of anomalies in the ...

26821 \$/560/61/000/008/010/010 E032/E514

Thus, the telescope specorded lelectrons with energies attacks > 8 MeV and protons with energies > 60 MeV. The particle flux recorded by the telescope was greater than the cosmic ray flux at all the points where the measurements were recorded. In the region of the equator the average flux was 1.2 particle gm sec , while of the equator the average flux was 1.2 particle cm sec, while at high altitudes the figure was 3.3 particle cm sec. Another , while unexpected result was the discovery of regions with anomalously large intensities. Among these regions was that above the southern part of the Atlantic Ocean where on August 19, 1960 there was an increase in the counting rate every time the satellite passed through the region. This is indicated by Fig.1 which shows the counting rate as a function of local Moscow time. The three peaks (1,2,3) correspond to the passage of the satellite through the anomaly. The anomaly lies between 25 and 50° S and 0 and 55° W. A further amomaly was discovered between 50 and 65° S and 30° W and 40° E. A third anomaly was found in the northern hemisphere between 60 and 65° N and 137 and 170°E. It is suggested that the northern anomaly may be associated with the outer radiation belt and is affected by solar flares. The South Atlantic and Southern anomalies may be associated with the existence in the southern Card 2/4

Detection of anomalies in the ...

26821 s/560/61/000/008/010/010 E032/E514

hemisphere of large negative magnetic anomalies (Ref. 4: B. M. Yanovskiy. Zemnoy magnetizm. M., GTTI, 1953), i.e. resions in which the magnetic field strength is lower than the normal field strength. A. J. Dessler (Ref. 5: J. Geoph. Res., 64, 713, 1959) has suggested that negative anomalies may act as sinks for the charged particles in radiation belts. pointed out to the present authors that T. D. Carr, A. G. Smith and H. Bollhagen (Ref.6: Phys. Rev. Lett., 5, 418, 1960) have discussed the variation in the intensity of radio-waves of Jupiter and have pointed out that the longitude dependence of this intensity becomes understandable if it is assumed that there are magnetic field anomalies on Jupiter. particle concentration will be enhanced and there will be an. In such regions the charged the increase in the intensity of radiation in the region of This effect may be analogous to magnetic anomalies reported in the present paper. Acknowledgments are expressed to Professor V. L. Ginzburg and Professor N. A. Dobrozio for their advice. There are 2 figures and 6 references: 4 Soviet and 2 non-Soviet. December 27, 1960 Card 3/4

ACC NR: AP7005581

SOURCE CODE: UR/0020/67/172/002/0313/0316

AUTHOR: Kabalkina, S. S.; Kolobyanina, T. N.; Vereshchagin, L. F. (Academician)

ORG: Institute of High Pressure Physics, Academy of Sciences, SSSR (Institut fiziki

TITLE: X ray diffraction investigation of the crystal structure of iodine at high

SOURCE: AN SSSR. Doklady, v. 172, 2, 1967, 313-316

TOPIC TAGS: x ray diffraction study, iodine, high pressure research, crystal lattice

ABSTRACT: The tests on iodine were made because at high pressure it is one of the few elements having a molecular structure, and may be the only element in which structure investigations can be made at room temperature. The authors carried out an x-ray diffraction study of its structure at room temperature and pressures up to 60 kbar, using a procedure described earlier (DAN v. 151, 1068, 1963) and molybdenum radiation. To improve the diffraction pattern, the iodine was tested in powdered form. The observed appearance and disappearance of several lines is reported, as well as coalescence of some lines with variation of pressure. In addition, the pressure dependence of the volume of the iodine and of the parameters of its lattice structure are plotted. The results indicate that pressure does not change the initial rhombic structure, merely distorting it and leading to some rotation of the molecules. It is

Card 1/2

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